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Job No.: CECTC/BBMP/KRIDL/W.No.09/2017-18 Date: 29.05.2017

TEST REPORT

CLIENT	:	**Executive Engineer,** Project Division, Yelahanka Zone, BBMP, Bangalore.
AGENCY	:	**Technical Manager (West),** KRIDL, Bangalore.
NAME OF THE WORK	:	Development of Civil works at HMT layout Parks in Ward No.09 Vidyaranyapura, BBMP, Bangalore.
REFERENCE	:	EE(Project)/Ynk Zone/WO/26/2016-17 Dated:27.01.2017
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

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Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part -5)	160 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	390 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.50 %	-

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Job No.: CECTC/BBMP/KRIDL/W.No.09/2017-18 Date : 29.05.2017

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Project Division, Yelahanka Zone, BBMP, Bangalore.

Agency : Technical Manager (West), KRIDL, Bangalore.

Name of Work : Development of Civil works at HMT layout Parks in Ward No.09 Vidyaranyapura, BBMP, Bangalore.

Reference : EE(Project)/Ynk Zone/WO/26/2016-17 Dated:27.01.2017

Date of Testing : 29.05.2017

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	85	8.50	8.50	91.5	90-100
2.36	168	16.80	25.30	74.7	75-100
1.18	159	15.90	41.20	58.8	55-90
600 Micron	210	21.00	62.20	37.8	35-59
300 Micron	180	18.00	80.20	19.8	8-30
150 Micron	140	14.00	94.20	5.8	0-10

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Job No.: CECTC/BBMP/KRIDL/W.No.09/2017-18

Date : 29.05.2017

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Project Division, Yelahanka Zone, BBMP, Bangalore.

Agency : Technical Manager (West), KRIDL, Bangalore.

Name of Work : Development of Civil works at HMT layout Parks in Ward No.09 Vidyaranyapura, BBMP, Bangalore.

Reference : EE(Project)/Ynk Zone/WO/26/2016-17 Dated:27.01.2017

Date of Testing : 29.05.2017

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	156	1.04	1.04	98.96	95-100
20	8820	58.80	59.84	40.16	30-70
10	3260	21.73	81.57	18.43	10-35
4.75	2017	13.45	95.02	4.98	0-5

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Job No.: CECTC/BBMP/KRIDL/W.No.09/2017-18 Date : 29.05.2017

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Project Division, Yelahanka Zone, BBMP, Bangalore.

Agency : Technical Manager (West), KRIDL, Bangalore.

Name of Work : Development of Civil works at HMT layout Parks in Ward No.09 Vidyaranyapura, BBMP, Bangalore.

Reference : EE(Project)/Ynk Zone/WO/26/2016-17 Dated:27.01.2017

Date of Testing : 29.05.2017

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	110	2.2	2.2	97.8	95-100
10	2930	58.6	60.8	39.2	25-55
4.75	1836	36.7	97.5	2.5	0-10

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Bangalore

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Job No.: CECTC/BBMP/KRIDL/W.No.09/2017-18 Date: 30.05.2017

TEST REPORT

Client	:	**Executive Engineer,** Project Division, Yelahanka Zone, BBMP, Bangalore.
Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
Name of the work	:	Development of Civil works at HMT layout Parks in Ward No.09 Vidyaranyapura, BBMP, Bangalore.
Reference	:	EE(Project)/Ynk Zone/WO/26/2016-17 Dated:27.01.2017
Type of the test	:	Physical tests on Paver Blocks
Samples supplied by	:	AGENCY

The results of the tests conducted on the Paver Blocks sample are as follows:

1. THICKNESS:

Sl. No	Identification	Thickness, mm	Average thickness, mm
1	01	75.62	75.38
2	02	75.15	

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2. COMPRESSIVE STRENGTH:

Sl. No	Identification	Load in Kilo-Newton	Cross sectional area, mm^2	Compressive strength N/mm^2
1	01	785.6	24,200	32.46
2	02	784.2	24,200	32.40
3	03	782.1	24,200	32.31

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3. Water Absorption:

Sl. No	Identification	Water Absorption %	Required % as per IS :15658 -2006	Remarks
1	01	5.2%	6.0%	Satisfactory
2	02	5.7%	6.0%	Satisfactory
3	03	5.1%	6.0%	Satisfactory

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Srinivas AE
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Job No.: CECTC/BBMP/KRIDL/W.No.09/2017-18 Date: 08.06.2017

KERB STONE (CORE) TEST REPORT

Client : **Executive Engineer,** Project Division, Yelahanka Zone, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, Bangalore.

Name of Work : Development of Civil works at HMT layout Parks in Ward No.09 Vidyaranyapura, BBMP, Bangalore.

Reference EE(Project)/Ynk Zone/WO/26/2016-17 Dated:27.01.2017

No.of Sample Tested : 03

Date of Testing : 08.06.2017

Techinical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Grade of Concrete : M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	72.00	0.325	2298.90	1.44	0.960	24.80	12.63	13.64	13.10	16.37
2	50.00	78.00	0.360	2350.60	1.56	0.960	25.90	13.19	14.25	13.68	17.10
3	50.00	76.00	0.348	2332.04	1.52	0.960	26.70	13.60	14.69	14.10	17.62

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Project Division
Yelahanka Zone
Bangalore

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Job No.: CECTC/BBMP/KRIDL/W.No.09/2017-18 Date: 10.07.2017

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Division, Yelahanka Zone, BBMP, Bangalore.

Contractor : **Technical Manager (West),** KRIDL, Bangalore.

Name of the work : Development of Civil works at HMT layout Parks in Ward No.09 Vidyaranyapura, BBMP, Bangalore.

Reference : EE(Project)/Ynk Zone/WO/26/2016-17 Dated:27.01.2017

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Received
Asst. Executive Engineer
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Yelahanka Zone
Bangalore

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.06.2017	10.07.2017	8.190	394.5	17.53
2	12.06.2017	10.07.2017	8.136	372.5	16.56
3	12.06.2017	10.07.2017	8.178	360.3	16.01

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Job No.: CECTC/BBMP/KRIDL/W.No.09/2017-18 Date: 10.07.2017

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Division, Yelahanka Zone, BBMP, Bangalore.

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Reference : EE(Project)/Ynk Zone/WO/26/2016-17 Dated:27.01.2017

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.06.2017	10.07.2017	8.101	385.6	17.14
2	12.06.2017	10.07.2017	7.986	371.5	16.51
3	12.06.2017	10.07.2017	8.138	356.2	15.83

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Reference : EE(Project)/Ynk Zone/WO/26/2016-17 Dated:27.01.2017

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Asst. Executive Engineer Project Division Yelahanka Zone Bangalore

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.06.2017	10.07.2017	8.120	380.4	16.91
2	12.06.2017	10.07.2017	8.135	389.7	17.32
3	12.06.2017	10.07.2017	8.144	354.3	15.75

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TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Division, Yelahanka Zone, BBMP, Bangalore.

Contractor : **Technical Manager (West),** KRIDL, Bangalore.

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Reference : EE(Project)/Ynk Zone/WO/26/2016-17 Dated:27.01.2017

Sample ID : Cement Concrete

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Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Asst. Executive Engineer Project Division Yelahanka Zone Bangalore

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.06.2017	10.07.2017	8.150	380.8	16.92
2	12.06.2017	10.07.2017	8.124	392.6	17.45
3	12.06.2017	10.07.2017	8.106	348.7	15.50

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